Paped Morch 1828 Inaugurul Essay Continued Bilion Feron For the degree of Doctor of medicine in the University of Tennsylvania Nathaniel M. Comer North Carolina February 5th 1898.

For the degree of Fector of

Although from its frequery & distructions fever has, in every age, attracted a large short of public attention, it is even in our day almost a terra inegnita. But a few years have paper since the first principles of the pathology of fever, were laid down. The very term Edispather implies on the part of our medical ancestors a total ignorance of that local origination of ferry, now, through the lessed teachings of the profepor of the Brachen of medicine in the Ministry of Finnsylvania, so generally conceded by american practetioners. At length is law the foundation of a philosophie system, & deductions from facts supersed the inference of facts from hypothesis. By this made of observing we are taught that Lever commonly commences in the Somach & from its multiplied sympathus affects many tever the remotest parts. The number of organs implecated movifies the expect of the disease

now through the level lawling of the profiler a Level of business in the Married of Committees to proved concile by more producens . It length is land he foundation lasty descende he reform offerts from whether the this more of streeting we are Homach + from to could pleas sympolice offers organs influence marges he refer of he down

+ as conducing to The same end may be aded "the period of lefe, the lessperament of the body, the lone of the fibre, the kind of deit on which the individual has been previously mourished, of the state of mind: When the deseased impressions are made on the Stomach they are imported, generally, in the first place to the chylopositic Niscera, particularly the the lever, as being connected with it not only by associated function but also continuity of structure the necessis membrane of the one pervading the entension & numerous ramifications of the desds of the other, must participate in any strong or delitinous injurgin I be extended throughout it I thence to the heart I blood refile. The lungs do not so frequently suffer. Then the skin becomes involved if it is the mest wraked point as is winced by its dry, parched & burning character. The head also shares in the diseased action Lit up in the stomach, for a close connection exists between them, especially, between the muceous of the one

is with the land of diet in which he whould ancorn mangement of he darly of the other he calculed throughout it there to be best there find of a wind light day, lander & barrery

and the aracknoid membrane of the other. Their like radie from a centre do all the morbid phenomena proceed & either quickly & violently extend their striking influence, or more slowly & lenently according to the nature of the morbific cause, the strongth of the constitution and the number of the organs, systems, or Teffices implicated. The most prevalent form of Continued Fiver in the southern states, is the Common Billions Four commencing with the symptoms of Lynocha & rucceeded by those of Typhus. Hence nosologists have designated it by the appettation of Lynochus, it being a combination of the two antecedent neither participating in the truly inflammatery symptoms of the one of it does weist independent of the Theymain) nor in contagion in the other, which is one of its distinguishing features, but blinding Them logether ing a slight degree. Of continued fever the arcants admitted a great diversity of species, but the above division is sufficiently comprehensive. Continued Levers run their

in opinions, fection, but thereng Two loster on

course with no intermission, but a slight signer of remission on the morning & marentation in the curing take place daily, & this Intermittent type accompanies all source in the early stages when ancience from marshs missione & more but the Uphanest law be said to be continued, the sponth power than being an exception. During the hot months inflamming four is dealogant to the accommend signers suffer mater but in winter the Theyman haraps the profite their bringing them to suffer at different bearing the trules on the tropics of scothers labelled.

Course of few that all ages & conditions are entyet to it, attacks. The most usual causes are entyed meserine as we find it prevated in palled a funture. It semitimes occurs without the agency of measure elivated sections of country suffering by its viety. Cold heat & moisture attending good venting value of the climate are cause of this device, but it is often

in to be continued the front posse not do had spill to the advanced Experim in flow you there to take at deferred bosins to warm is in fine it founded in fall but the I remained were which he spring of m diese & decline of country different of the sents

confined in obscirity. Also insufind heat all as a mortio agent & occasions gried disorder of the functions, at first directly stimulating of enceting the system & specify leaving, it in a state of correspondent debility being Thus revioured leable to be acted on by the executing causes. The visiting causes are the same as in other firms. Errors in eating & drinking, reduct exercise, infraguer exposure 4 particularly to the sun or night air or the Logs succeeding to hot days, inappropriate or partial clothing or and clothe especially when combined with fatigue, fasting, severe exacuations, and I'm changes of weather, los close an application to sterdy, or giving way to some defending passion He. There causes produce burious modifications of the disease & with greater extendy at different limes, when influenced by season, prentiarity of situation, temperament & condition of body .-Ty ... folong. The approach of this lever is marked by langues, hearings, anxiety, sighing, listlefourly, youring attended by attenuale sensations of heat & low, pain in



The back of limbs of wind regors with all The phenomena of an intermettent paronism. The surse of heat of its effects after a little time become less violent & are allowed with blushings & at last going off allogether the furr become formed accompanied with great pain in the head & back, increased real & Ingrife, over the whole body, naugua & romiting of bilious matter, good third, fund tong us, loss of appetite real, Tistention, pain & tenderrufs over the stomocks, hat & fated breath, respiration quick, full throng & frequent pedos, deleamination to the head sometimes deteriorm, or sallow skin of afteringes also. Sometimes when the allack is Niolent there is deleseum I rid eye. In the commencement the bourts are constituted sometimes bile is brought away by purging or the slook are serous. The unive is dark coloured & seearse. In the 24 hours particularly in the morning there is an abelianced of the petrile action of generally a slight persperation of short contumence of Them the paronison recurs with more rehermine, but continuing longer than the fight day, the witel forces become reduced their dry or colliquation



persperation, with deficient womany accretion. We have also a dark inevisted tougue. Diagnosis the season of the year, Nomiting of bilious matter & he sollowness of the skew, who " the constitution of habits of the patient, The nature of the prodisposing & creeding causes, will aid us in the diagnosis. Trogorous. There are certain symptoms which indicate a favourable or an unfavourable Termination of the dinare, yet there are modified and influenced by the " age I habels of the patient, the corcumstances in which he is placed & The period of time which has elapsed before medical treatment is resorted to . If needin inflammatry executionent, as the true Vlurges face, Throbing, quick, full tenge or hard pulse, intolorance of light with virtigo or early steeper of delining should continue in spile of the remedies for serviral days, the went may be doubtful, but if to these be added picking at the bed clother, starting of the tendous undunlary discharges by stool & wine & herough. I well then be almost cortainly fatal. But on the



Contrary of there is a subsiduce of febrile movement to other symptoms moderate there is a lenderey to a crisis which is marked by a natural skin moist treland & temperate, pulse becoming acft, slow & natural, tongue clean with expation of thirst alvine discharges dark tary & feled or of a natural colour, The unine depositing a laterations sediment, seals appearing about the mouth & above all the enjoyment of the intellectual faculties. The symptoms presuling we may expect a happay termination. Released of sleep is one of the most favourable symptoms. Cornelimes the fiver learnings without any suche distinct manifestations & in thout increased warnations, the change is slow of gradual & gently lapers off. Dipulions. The appearances on dispection in those who die of fever sufficiently point out that danger is to be chiefly apprehended from the occurrence of inflamation & that against such a state the measures of the physician are to be diricted, relieve the local affections of the general disease will be miligaled. The same morbed phenomena appear as



in resent cases of intermitted fever. The mucous coal of The stomach about the pylorus is intensely phlogored of Streaks of inflamation appear on its surface I also in the duodenum. The liver rarely weaper the inflamation & is often enlarged & sometimes bloated with heavy longistion 4 The gall bladdes filled with vitealed bile. Sometimes the aplan is engarged & its perstand covering inflamed. The arachnoid numbrane is nearly always inflamed & the refuls of the cerebral substance injected. And sometimes the Hace of the spind marrow, is inflamed & iffusions & intravisations are after sun The longs are seldom offseled or has been mentioned. Tuthology. The pathology of this disease appears probably to lousist in irritation of the news of the necess lost of The stomach, which irritation continuing much induer inflamation, This inflammation wither from by mpathy or continuedly of structure evolves the general expline producing uttimately if not wristed extension disorgan - uzations & death. There is always a tensurey in fever to a spontaneous crisis on particular days. Disposerally



called there judgement days from the notion that nature on these occasions pronounced the fate of the patent. They are The 3.7 9.11.14.17.20000 Home intend Them to the 27. 35 or 42 - region these days There is a Tendency to a diminution of the disease &a correspondent exacerbation on the intermediate ones: This was more porticularly The case when stippoerates territo, his practice being elender the climate mild of avound by The habily of the Green people. But now by wild develous from nature, sudden changes of weather, & The action breakment employed, That lending to critical robution is prevented. The progress of the biseage is often everted by the imployment of copious bleeding active purging, imelies, blesters, & The revolutionary hower of moreury. Let even under these circumstances all ferry of measurates origin relain a corted Tendency of upon These days we should lend nature our greatest and to bring the desiane to solution Freatment. The slage at which we see the patient influences



The tour ment. Ising called in the early stage, the object is to overcome the naccel improprion before it becomes deeply worted & forms drief into open fiver. If on examining the palant we find gastrie contation how whe I slight disturbance of the leveralation, us first evacuale the prima via by an undie which symptoms demanding it, may be repeated, spifty becker to the hear give colo dem whent drinks andulate employ dimulating pedelereum making at the Same line cold applications to the head & give The neutral mesetiere. But The disease being formed The lancit must be resorted to. He have at this time a strong pulse; hot thin; ditirmination of blood to the brain or other important organs. To be production of benefit so much blood as to reduce the excile--ment & make a surible improprion on the disease, should be detracted to effect this it is meet any to blew regardless of quantity until the object is altorned By bleeding thus freely at once the structure of the



organ is preserved the disease subverted. At This very junction coupley topical bleeding from The organ mostly suffining as from the hear, slomach to this may be effection ither by luckes or cups, the bourfits resulting are frequently very great. Large accumulations of bile, sorder, feers or any other morbid substance in the stomach or alimentary cand demant examiting · medicines especially emilies of Fartange Anternony in the first instance if no exemptions contra indicate its use, as the Tongue plorie on The point trigges & cound in the middle with a while coal is if milk had been su allower, tendency's at the pil of the stomach releting & vomiting of glory matter, These being absent the opporation of the antimony, will be allowed with the happeast results . When vomiting can not be employed from prequeres or peculiarity of constitu-- lion or after unities have been employed, we may Then regard to purgetives in different combinations The best is the Froto chlorive of mercury with Lalaja,



Pulve Whie Gambogia or Elaterium. They apperale in less quantities & more linearly & effectivally Than when Taken separately 18 w The Prote chlorice of mereury in doses of from 5 to 10 grows way bear leve or This nours with it commences opposaling I then promote its action by the sulphate of magnesia or deem Ricine, is better than the drastee articles This practice about be continued until we effect the complete discharge of the morbid secretions of the Stomach of bourds, as evidence of this we have clark, trany + felic stools which is terely a morbid secretion I not bile as has been thought. The more dash, Tany & file I these discharges are the better. The liver The commencement is executed 4 we have an increased secretion of bele, best absord always his is followed by a state of correspondent collaps & loopor & from the secretary action of this viscus being either impaired or suspended see have Exprand seenlions or the sallow Skin & perhaps eye There derangements of function will



have been corrected by the preceding practice if then inesting. If occurring after this the Proto chloride of mercury umilarly administered & worked off by oburn Recion : what will be demanded to ustone it. To keep the bowds in a soluble state the imployment of the caline purgaliers may be resorted to with advantage, The effects of which, are increased by the addition of about a grain of Vartarozed Antemony to the owner. He regord to enemula wither is presente is approachion of other neviceous or where from the crockbelly of the stomach we can not administer them by the mouth. Enemate I ninch, after the bounds have been thoroughy evacuated by purjulior merceines, might be more frequently resolice is name at previous, with breeded advantage. They may loused of any mucilage's oil or chicken water, with a small portion of Tulis Thei, & molafer or soup, a tittle common salt being added or any thing, that will gently, stromulate the intestime. To reduce lapital inflammation, the local detraction of blood by cups &



becker is employed of at the some time we call to our aid other evacuating means, as purguing or if The general system become, involved we employ vine section. To afrest in recuercy sibule action cold applications to The surface, are called for, These applications should conside of cold water or con water or what is belle con water bringer. Is very in most agreeable to the patient 4less hazardous in its effects, there applications should be made in sponging rather than by aspersion or offersion. The indications hor the imployment of the shonge are a Tolerably vegerous pulse of the skin preternaturally hot & day. Used undersuch circumstances it calms irritation componed to red, it induces sleep. In high fever & at The same, The etomach & bouls phlogoged & the skin hot , the best yefrely result from cold water exections. Sirected in other concilions Than Those pointed out hey are not only woulds but permitions. It this moment refrigients are advantageously employed, which by reducing ras--cular forw not unfrequently produce relanation of



in surface & perspirations. To accomplish This we would employ ather the netrous poudor or a solution of the sulphale of magnesia with event spirity of titre 9 added to Thur a small quantity of Tarlarezze autimany. I would use there in the following proportions pulphale of magnesia ralf an ounce. Severe spirit of Artra half an ounce, Lartanized Automony ten yrong, water eight owners, low half a Table spoon fell every how or Two or oflener of symptoms demane I. This I have found to auswer very well. By The consumed offen - nation of These medicines the excitement of the expline being reduced, Diachorlies may be now advantagions, resorted to. We should not work to displanties in Bilious Fur until inflammatory & vascular action is reduced by the remedies above mentioned. By prematurely resorting to stemulants or disphonties, or Supleting too sparingly in The commencement the fewer is converted into a Typhoid Four or runs a more (motracled & dangerous ? ourse. After the system has



bun prepared for their "unfition They may not only miliante but completely wrest the fever the skin becoming relaxed the injurence is plain That nature is about to succeed in bringing the Linear to a consis I should be apresed by artificial means Now disphoning , we demanded & of These the Antimoneals bey general withorty we placed at the head of the tid. of the prejurations of autimony the Lastanized Antimony is preprotes. The best effects of his medicine are allained when it lead disturbs the stomach, Though high withorities delan otherwise. " o procure the disined effect of Vartanger Antimony, is difficult as we can not always regulate the doze from the circumstance of the stomach as regards invitation. The usual dose is The 1/4, 1/10 or 1/4 of agrain every two or three hours. Antimonials rum to popy a specific antifibrile quality independently of their diaphorate property. If from the imitability of the stomach the antimornals are rejected we then should resort to other medicines



left offerior to be stomach & of These the efferieved wought or ninted mixture, is best or spiritus mindenere answers very well. Should veternal appleasions become necessary the vapour bath im rowing vinegar on heated bricke or heated brick Themselves veing very retention of heat or other applications of a similar nature will produce inofuse perspiration out There are not yourally ad-- minible. At this time after the system has been reduced sufficiently, the Vineau progressing blisters, with de--tide benefit, may be had recourse to, They are to be applied atternately to the feet of upper entremeties to Verive full advantage from their use, or they may be demanded on both at the same time. At this Stage of ne dinanc by some the bank has been highly extolled & by others reprostated It is now generally and -mitted that the bank is inadmissible except where there is a decider tendency in the fever to intermet teven here we must have a most tonger & relaxed surper independent of any central affection By Doils Holcomb,



the Sulphale of Quinere is given in all clayer, with I is said, build advantage, were where the akin is dry & it is also said, is followed generally my persperation I conduces to wenteral holution. Not yet having arrested The foregraps of the I wase we trans to mercury which is generally effective if the eystem can be completely affected by it. But not unfrequently the pateent dees before we can affect the system it being difficult to get the midieine to act. We should avail ourselves of the different methods of introducing it irole the system, particularly by inunction in low - siderable quantities. In the lowrage of the Disease offections were which it is needfory that we should notice " " I retermination to the head with Iderium or a strong tendency to it; The remedies are, cold apple - cations to the for head, vinegard water, seed water, Topica bleeding by cups or leaches or the temporal artery may be opened, the leaches & cups tool being at command. While lold is applying to the head, hot



applications, as hot water HI should at the same time be mode to The cretumilies. There moins implicient a blister should be applied to the back of the neck I on it, failing to offord ruleif the head may be nearly covered with one which no symptom forbidding it should be permilled to remain on 24 hours . Great rest. - leprufs may occur during the first stage of the attack or afterward. If accompanied west increased temperature The skin dry other, The lop of blood is indicated, springing The inspace with cold water & inamuraing the army in it affords in many instances signal benefits. Hoffmans Anodyna Liquor or the Camphoraled emulsion should be unployed. Decening after this opicem becomes ad-- nufrible of best in the form of the Black Prop, spiale enumeta where opium disagrefs with the stomach, may be substituted. A viliated state of the alimentary canal is prequelly productive of longiderable thirst which is to be relieved by purpotions, cleaning the touque, lips, & gums with Lime given or vinegar chareal &



water & frequently ring the mouth with told water I menule portion of acid drinks. If Dependent on deficient scention we may unplay the First ochlorids of Mureury in Saus of 1/4 of a grien every & or 4 hours. There is usually to be be observed Throughout the prograp of the perior, much dryings of the tongue of fauces & entrance Thiese. Here the Fraction of the Physicians of antiquety differed much some gave drink fruly while others prohibited it allogether. A medium practice is that which should be pursued, that is mether induce nause or Nomiting by Veluging the Stomach or enate arrenty by refusing it with would increase the Disease. Limon his or Vinegart water, apple toast or tamerind water, accordated barrley water, I the infusion of Liquorer root may be imployed wish advaidage. It small portion of lommon water if the temperature be not too low, should not be refused. Warm bevorages are frequently effective in allaying Thirst where The above remides have facted



"Gastrie ) distrifs, Naurea & Nomiting may depend on hile or initially of the stomach, or what of was happenes phloge -sis of that organ, Accumulations of bake may be known to weist should there be believes evacuations. This being the lase we present wither an emelie or a purge of Firt chloride of mercury worked off by may mena or the Rulphale of magnissa. To quick initibility w number of remedies have been employed. The efferencent drought, Total mintere, Time water 4 milk, ment or clove tea & Frists chloride of nureway in small & repeated dones as 1/4 of a grains with 1/4 of a grain of oficem secasionally, added wanted be sound ser wierable. An old apier pill comelines alls prompelly. In spiste one ma should do be borneled. Syneronous with The administration of the above remedies, exclemal applica-- lines, as circumstanus may require, may be made is clove formentations, clother and of hot spirit, applied to the Tomach & removed as often as They become cold, Minutaling pulluvirem made so by muster, surspessors to the



ancles, or a blister to the stomach. Thould There be phlogoris of the stomach which is not uncommon, every thing stimulating should be withheld . When There is a sure of intermal heat, tenderufs of the Chegastown, Touque flored on the edges & ligh & presenting The appearance in its centre of milk having been swallowed, hard & corder pulse we know phlogonis weists. Local Depletion is here in Dispunsible which is effected by the application of lucker over The phlogosed part. Cold applications should also be made to the same part & frequently repeated. There meaning aided by the inhibition of told mucilaginous drinks agreeably acidalad with Lemon guice will generally succeed in removing the gastre phlo -goris. Conjection or inflammations of the starmacher Lever may be the coursquere of a phlogond blomash For the releef of these local affections local remedies we most appropriate, as bucking & other depleting measures. Surring the progress of the disease tille or

no nourishment is admissible, a small quantity of Chickens or barley water with the flinds necessarily Taken is as much as well be required. In the Communesment of low valuences we should direct the farmaceious articles, as arrow root, sago, siev, Hb. After a few days, eggs slightly cooked, oysters or chicken may be allowed. Convalueent pateents should sal little the ones & as is usually directed frequently, but not so prequently That The stomach by the aggregato shall be fatigued or opposited. Should the bounds become constituted some gentle puryative as The oleum Ricini may be directed. Consdereuse being slow & The patient feeble Tonies as the Elisin Netred or The bark or perhaps these two preserved together would be the better presentations.

begins constrated somegainthe purpoles down time may to limber to